



FOOD DELIVERY-HELMET

HELMET CONCEPT

This project is based on delivery. As we all know, the current delivery industry is undergoing tremendous changes. Lots of new technologies have been developed, including artificial intelligence.

We have done some research on food delivery. The most prominent problem is that the delivery men drive too fast. Because they do not want to be complained by customers due to overtime. If once, they may be detained for nearly 500 yuan.

There have been set lots of design standards for moto helmets. However, there are few design standards for electric vehicle helmets. Investigation revealed that the proportion of electric vehicles involved in the accident was over 60%.

The concept of this project is to deal with the calling problem when riding e-bikes. Insert the function of scanning to the helmet. Entry the telephone numbers of customers via camera or laser scanner. Riders can call them with one button which are free from hands.

Helmet Categories

Fullface	Offroad	Modular flip-up	Open Face (3/4)	Half Skull cap
hard, protective	Strengthen the mandibular protection against dust and sun-head light	The mask part can lift to the top of the head	like jet, light	more lightly
fuggy, hard to wear	extra protective goggles are required.	voice connect	protection is not enough	not protective

Brainstorm

BLUETOOTH 4.1

INTELLIGENT NOISE CONTROL

LIGHTWEIGHT

AMBIENT AUDIO CAPABLE

VOICE COMMAND

EIGHT-WAY INTERCOM

AUDIO MULTITASKING

GROUP INTERCOM

FM-RADIO

ANTI-FOG

VENTILATE

HARD

LIGHT

CAMERA

Protection Test

Test 1

step 1: Take the helmet on the dummy head, ride e-bike.
step 2: When you get to the place, let the helmet go and throw dummy head out and contact the ground with free fall.
Tip: The helmet is about 1.5 metres from the ground. The e-bike runs to 35 (km/h).

Test 2

step 1: Fix the helmet with a brick
step 2: Let a car which weighs about 1.9 tons press over the helmet at a speed of 40 kilometers per hour.

Interview

ABOUT HELMET

What do you think of the helmet that you wear?

I can't see very clearly at night, especially on the rainy days.

What functions do you wish that helmet you wear can have?

Firstly, it is essential for helmet to keep my head safe, I wish that helmet is hard but not very heavy, because I will feel a little bit pain to wear it all days. If possible, it is very surprised to have the function of bluetooth or a button for SOS.

1. It takes different time to wait for different kinds of food.
2. Give priority to take faster cooked food out.
3. If one delivery man receives too many orders and he can't deliver in time, he may share some orders to others.

User Journey

many orders at lunch time
give priority to take faster cooked food

It is hard to drive in some busy streets break the traffic rules just for delivering in time.

Delivery man will be complained if time is out

receive orders on apps

waiting

deliver

call the customer

navigate to restaurants

Order

Drink

Restaurant

Problem and Solution

dangerous behavior

scan QR code to get the telephone No of order

connect to the phone via bluetooth

Air permeable reticular fiber

Touch for scanning

Bluetooth button

Scan laser

Light for warning

Action camera

Touch for calling

Air inlet

SKETCH

INSPIRATION